

II. CLAIM AMENDMENTS

1. (Currently Amended) A telecommunications system which comprises an office network, an operator network, and a local area network between them, wherein the office network comprises:

at least one mobile station configured to support a packet data protocol of the office network,

a location database for registering mobile stations belonging to the office network and for managing location and subscriber information,

a base transceiver station,

a radio access gateway configured to control the base transceiver station and having a functional connection with the local area network and to configure data transmission protocols between said at least one mobile station and the local area network,

a serving support node which is configured to support a packet data protocol of said at least one mobile station and to have a functional connection with said radio access gateway,

a packet control unit which is configured to support the packet data protocol of said at least one mobile station and to have a functional connection with said radio access gateway and serving support node, and

a gateway support node which is configured to support the packet data protocol of said at least one mobile station and to have a functional connection with said radio access gateway, serving support node, and packet control unit, and

wherein the operator network comprises functions for configuring data transmissions from the office network through the local area network at least to the data transmission protocol according to said mobile station and used by a public land mobile network and for configuring a packet data connection from the office network through the local area network to at least the packet data protocol used by the public land mobile network;

and in response to the packet data connection request made by a mobile station, the office network is configured alternatively to:

establish a packet data connection to the destination address defined by the link request through the serving support node and gateway support node of the office network in response to the fact that said mobile station is registered to the office network, or

route the packet data connection to the public land mobile network for onward routing to the destination address in response to the fact that the mobile station is not registered to the office network.

2-3. (Cancelled)

4. (Previously Presented) A telecommunications system as claimed in claim 1, wherein

an office base transceiver station, radio access gateway, serving support node, packet control unit, and gateway support node are implemented as one element of the telecommunications system.

5. (Previously Presented) A telecommunications system as claimed in claim 1, wherein said radio access gateway, serving support node, packet control unit, and gateway support node are implemented as one element of the telecommunications system in such a manner that the element is configured to control one or more office base transceiver stations.

6. (Previously Presented) A telecommunications system as claimed in claim 1, wherein a data transmission connection is configured from the gateway support node to a Dynamic Host Configuration Protocol ("DHCP") server for dynamically defining the IP addresses of mobile stations.

7. (Previously Presented) A telecommunications system as claimed in claim 1, wherein the operator network further comprises interfaces corresponding to said packet data protocol for establishing a packet data connection between at least the serving support node or gateway support node and an external data network.

8. (Currently Amended) A method comprising:

~~for~~ establishing a packet data connection in a telecommunications system which comprises an office network, an operator network, and a local area network

between them, the office network comprising at least one mobile system terminal which is arranged to support a packet data protocol, a base transceiver station, and a radio access gateway controlling the base transceiver station and arranged to have a functional connection with the local area network, a serving support node, a packet control unit, and a gateway support node, which are configured to support the packet data protocol of said mobile system terminal and to have a functional connection with each other and with said radio access gateway, and a location database for registering mobile system terminals belonging to the office network and for managing location and subscriber information, wherein the operator network includes at least one function for configuring the packet data connection from the office network through the local area network to at least the packet data protocol used by the public land mobile network, the method comprising wherein establishing the packet data connection comprises:

making a packet data connection request from the mobile system terminal to said office network, and in response to the packet data connection request made by the mobile system terminal, the office network is configured to alternatively:

establish a packet data connection from the office network to the destination address defined by a link request through the serving support node and gateway support node of the office network in response to the fact that said mobile system terminal is registered to the office network, or

route the packet data connection to the public land mobile network for onward routing to the destination address in response to the fact that said mobile system terminal is not registered to the office network;

~~establishing a packet data connection from the serving support node and gateway support node to a destination address defined by the packet data connection request,~~

configuring data transmission protocols for data transferred between said mobile system terminal and the local area network in said radio access gateway, and

configuring a data transmission from the office network through the local area network to at least the data transmission protocol according to said mobile system terminal and used by a public land mobile network in said operator network.

9. (Cancelled)

10. (Currently Amended) A network element of a telecommunications system for supporting packet data connections in an office system which comprises at least one mobile system terminal, a base transceiver station, and a radio access gateway controlling the base transceiver station and configured to have a functional connection with a local area network and to configure data transmission protocols for communications between said at least one mobile system terminal and the local area network, wherein the network element comprises

a serving support node, a packet control unit, and a gateway support node, which are configured to support a packet data protocol of said mobile system terminal and to have a functional connection with each other and with said radio access gateway; and

wherein in response to the packet data connection request made by a mobile station, the network element is configured alternatively to:

establish a packet data connection to the destination address defined by the link request through the serving support node and gateway support node of the office network in response to the fact that said mobile station is registered to the office network, or

route the packet data connection to the public land mobile network for onward routing to the destination address in response to the fact that the mobile station is not registered to the office network.